

ARCnet Not Getting Older But Faster

Clients, Servers And OOP

ARCNETplus Is Twice As Fast As Ethernet

by field Karth

Currently one of the three major PC LAN technologies, standard Alienar, with some 20% of the market worldwide, has become a de tache standard. Wille the amouncement recently of Amountplus, it's

"AKCNET's topology is extremely flexible and forgiving."

become a technology whose performance immbers are better than those of Etternet and Token Ring, and should be an ANSI standard by the time the first AREBLIPHS product is on the market.

Standard ARCNETS Edge

Inst what's behind the endurling popularity of standard 2.5
Mips And Nr.!? For one thing,
according to installers, its very
differult to book up Incorrectly.
Another is topology is extremely
flexible and longiving. Withonly a few simple inherenment
inles, it's exceptionally easy to
condigue. An Anon't metwork
can be wired in a star or bus
layout. These simple wiring layouts can easily be combined
into a complex, bredom topology which includes coax,
twished pair and liber optic
grounders and provides great
flexibility for the network
designer.

Tor another, the ARCNLE con-

for another, the ARCMLT controller chip enables IT's to join and leave the network without disrupting network activity. This, coupled with ARCMLTS

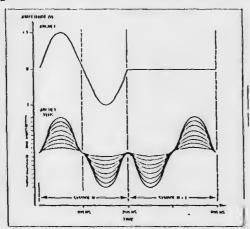


Fig. to ARCNL Lishes, tour binary bits [36 hex riligital symbols) bil the same space on a shople ARCNL 150. ARCNL 15.200 us silved person by also used for ARCNL 150. Incomission.

flexible topology, makes it easy to add or relocate PCs at will. Emther meson for ARCM IS popularity is that it's a token-

"Both 20 Mbps ARCNETPHIS and 2.5 Mbps ARCNET can coexist on the same cable."

passing (right to transmit) protocol. In addition to guaranteeing equal access to the network for all 171s, this protocol is deterministic, enhancing reliability in time critical applications. And as more PUs are added to the network, throughput degrades only in small pre-dictable berements. By comparison, network foating on Ethernet and Starlan, which both employ ESMACD (Parrier Sense, Multiple, Acress, with Unliston Detection), increases the frequency of collisions, degrating metwork performance exponentially.

Enter ARENETphis

Counter arguments that ARCNI. is slow and limited to small packet sizes have been shattered by a recent automore count by Datapoint, SMC and NTR. Just automored 20 Mlqs. ARCNI. plus, an embauerment of 2.5 Mlps ARCNI. has substantially increased maximum.

size up to 4096 bytes, Additionally, basic transmission rate and number of nodes supported on a single network base been increased (2017 for ARCNET, and 1023 for Standard AUCNET, and 1023 for Ethernet) Despite the rhanges, Aucnet

plus retains all of the desirable leatures of standard AUCOLI. It has the same hook and helt, still employs token passing, supports roax, twisted pair and liber calding, and others the same reliability, case of 16 ARCNET page 10